







charge ir	n cfs			Ŧ	otal Reco	verable Alu	minum C	oefficients
3 3 3	Intercept c	oefficient		r				ntercept
	Runoff		ow Flow Nove	mber-March		472	1.000	496.92654
M34	-2.771	0.394	-2.28954	0.38718		M34	0.080	299.49322
CC48	1.752	0.130				CC48		
			6.77165					2153.80184
A68	-11.131	0.498	-3.62869 <u> </u>	0.45153	<u> </u>	468	0.001	140.21455
Discharge F	Relationships am	ong the three	gages					
_	MONTH	J	F	М	Α	M	J	J
	Intercept	1	1	1	1	1	1	1
	A 72	64	63	77	155	682	1196	624
	M34	22	22	28	58	266	468	243
	CC48	14	13	15	22	91	158	83
	A68	25	25	31	66	329	585	300
	Ground wate	3	3	3	9	-3	-14	-2
1/(1+BQ) D	ischarge Represe	entation						
, ,	A 72	0.0154	0.0156	0.0128	0.0064	0.0015	0.0008	0.0016
	M34	0.3572	0.3612	0.3123	0.1767	0.0449	0.0260	0.0489
	CC48	0.0689	0.0694	0.0629	0.0435	0.0109	0.0063	0.0119
	A68	0.9754	0.9758	0.9698	0.9380	0.7527	0.6311	0.7694
Date variab	les							
Date variab	sin	0.1552	0.6358	0.9276	0.9887	0.7862	0.3629	-0.1441
	cos	0.9879	0.7719	0.3737	-0.1496	-0.6180	-0.9318	-0.9896
	sin1	0.3066	0.9815	0.6932	-0.2959	-0.9717	-0.6763	0.2852
	cos1	0.9518	0.1916	-0.7207	-0.9552	-0.2361	0.7366	0.9585
	Consent	1	1	1	1	1	1	1
A72	Intercept	1	1	1	1	1	1	1
AI Z	BQ	0.0154	0.0156	0.0128	0.0064	0.0015	0.0008	0.0016
	sin	0.1552	0.6358	0.9276	0.9887	0.7862	0.3629	-0.1441
	cos	0.9879	0.7719	0.3737	-0.1496	-0.6180	-0.9318	-0.9896
	sin1	0.3066	0.9815	0.6932	-0.2959	-0.9717	-0.6763	0.2852
	cos1	0.9518	0.1916	-0.7207	-0.9552	-0.2361	0.7366	0.9585
	Consent							
A72 Con	centration	2916	3055	2672	1683	839	580	537
M34	Intercept	1	1	1	1	1	1	1
1110 1	BQ	0.3572	0.3612	0.3123	0.1767	0.0449	0.0260	0.0489
	sin	0.1552	0.6358	0.9276	0.9887	0.7862	0.3629	-0.1441
	cos	0.9879	0.7719	0.3737	-0.1496	-0.6180	-0.9318	-0.9896
	sin1	0.3066	0.9815	0.6932	-0.2959	-0.9717	-0.6763	0.2852
	cos1	0.9518	0.1916	-0.7207	-0.9552	-0.2361	0.7366	0.9585
	Consent	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
M34 Conce		4331	4376	3824	2293	806	593	852

CC 48	Intercept	1	1	1	1	1	1	1	
	BQ	0.0689	0.0694	0.0629	0.0435	0.0109	0.0063	0.0119	
	sin	0.1552	0.6358	0.9276	0.9887	0.7862	0.3629	-0.1441	
	cos	0.9879	0.7719	0.3737	-0.1496	-0.6180	-0.9318	-0.9896	
	sin1	0.3066	0.9815	0.6932	-0.2959	-0.9717	-0.6763	0.2852	
	cos1	0.9518	0.1916	-0.7207	-0.9552	-0.2361	0.7366	0.9585	
	Consent	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
CC 48 Cor	ncentratrion	6027	6101	5696	4528	2655	2164	2262	
A68	Intercept	1	1	1	1	1	1	1	
	BQ	0.9754	0.9758	0.9698	0.9380	0.7527	0.6311	0.7694	
	sin	0.1552	0.6358	0.9276	0.9887	0.7862	0.3629	-0.1441	
	cos	0.9879	0.7719	0.3737	-0.1496	-0.6180	-0.9318	-0.9896	
	sin1	0.3066	0.9815	0.6932	-0.2959	-0.9717	-0.6763	0.2852	
	cos1	0.9518	0.1916	-0.7207	-0.9552	-0.2361	0.7366	0.9585	
	Consent								
A68 Co	ncentration	166	204	228	232	213	176	136	
Concentrat	tioı	0	0	0	0	0	0	0	
Load in po	unds per day								
	Sum	988	992	1064	1341	2834	3898	2354	
	A72	1008	1039	1111	1409	3090	3745	1810	
	% Difference	-0.02	-0.05	-0.04	-0.05	-0.08	0.04	0.30	
	RPD	-0.02	-0.05	-0.04	-0.05	-0.09	0.04	0.26	

Recoverable Aluminum Coefficients							
BQ s	sin d	cos		·			
44614.59702	285.00575	151.57158					
1284.63217							
49268.69456	298.24193_	438.56568					
11.83749	81.56609	1.12097					
	_						
A	S	0	N	D			
1	1	1	1	1			
268	187	142	92	70			
103	71	53	33	25			
37	26	20	16	14			
122	82	60	38	28			
6	8	9	4	3			
0.0027	0.0053	0.0070	0.0109	0.0141			
0.0037 0.1085	0.0053 0.1500	0.0070 0.1904	0.0108 0.2727	0.0141 0.3350			
0.0265	0.0368	0.1904	0.2727	0.0660			
0.8910	0.9242	0.9438	0.9635	0.9728			
-0.6271	-0.9360	-0.9878	-0.7716	-0.3573			
-0.7789	-0.3521	0.1556	0.6361	0.9340			
0.9769	0.6591	-0.3074	-0.9816	-0.6674			
0.2135	-0.7521	-0.9516	-0.1908	0.7447			
1	1	1	1	1			
1	1	1	1	1			
0.0037	0.0053	0.0070	0.0108	0.0141			
-0.6271	-0.9360	-0.9878	-0.7716	-0.3573			
-0.7789	-0.3521	0.1556	0.6361	0.9340			
0.9769	0.6591	-0.3074	-0.9816	-0.6674			
0.2135	-0.7521	-0.9516	-0.1908	0.7447			
738	946	1250	1928	2573			
1	1	1	1	1			
0.1085	0.1500	0.1904	0.2727	0.3350			
-0.6271	-0.9360	-0.9878	-0.7716	-0.3573			
-0.7789	-0.3521	0.1556	0.6361	0.9340			
0.9769	0.6591	-0.3074	-0.9816	-0.6674			
0.2135	-0.7521	-0.9516	-0.1908	0.7447			
1.0000	1.0000	1.0000	1.0000	1.0000			
1523	1992	2449	3377	4080			

1	1	1	1	1	
0.0265	0.0368	0.0470	0.0572	0.0660	
-0.6271	-0.9360	-0.9878	-0.7716	-0.3573	
-0.7789	-0.3521	0.1556	0.6361	0.9340	
0.9769	0.6591	-0.3074	-0.9816	-0.6674	
0.2135	-0.7521	-0.9516	-0.1908	0.7447	
1.0000	1.0000	1.0000	1.0000	1.0000	
2932	3536	4244	5023	5709	
	_			4	
1	1	1	1	1	
0.8910	0.9242	0.9438	0.9635	0.9728	
-0.6271	-0.9360	-0.9878	-0.7716	-0.3573	
-0.7789	-0.3521	0.1556	0.6361	0.9340	
0.9769	0.6591	-0.3074	-0.9816	-0.6674	
0.2135	-0.7521	-0.9516	-0.1908	0.7447	
0.2100	0.1021				
99	74	71	89	124	
99	74				
		71	89	124	
99	74				
99	74	0	0	0	
99	74				
99	74	0	0	0	
99 0	74 0	1190	0 1073	1002	
99 0 1492 1068	74 0 1294 955	0 1190 959	0 1073 958	1002 973	

A72								
	Chronic TV	'S at A72			Pr	edicction E	Equation Co	efficients
	a2 b	2				Hardness		
Cd	-3.49	0.7852		В		0.006		
Cu	-1.485	0.8545		In	tercept	82.304		
Mn	4.785	0.5434		В	Q	200.676		
Zn	0.7614	0.8473		sir	n	16.936		
				CC	S	48.860		
				sir	n1	15.385		
				CC	s1	-5.633		
I								
	Month	J	F	М	Α	M	J	J
	Q	64	63	77	155	682	1196	624
	Hardness	277	290	268	196	91	53	72
	Al ch	87	87	87	87	87	87	87
	Cd ch	2.5	2.6	2.5	1.9	1.1	0.7	0.9
	Cu ch	14	14	13	10	5	3	4
	Mn ch	2544	2607	2497	2107	1388	1032	1227
	Zn ch	251	261	244	187	98	62	81

M 34								
			Predic	ction equa	tion coeffic	cients		
		Hardness Alu	minum	Cadmium	Copper	Iron 2	Zinc	
	В	0.013	1.00	0.021	0.123	0.06521	0.021	
	Intercept	60.05228315	.10361	0.91724	14.65129	77.705232	05.25873	
	BQ	205.02801338	.29032	0.60966	00.98354	370.297063	78.11589	
	sin	9.24827)69	.03843	0.26911	14.16661	-89.38888	88.77920	
	cos	32.30173379	.08681	0.20991	10.17487	38.04002	85.94018	
	sin1	435	.43127	-0.12214	1.04278	86.24646-	17.99615	
	cos1	123	.10453	-0.14689	-3.82920	-12.30367-	45.60154	
	consent	-265	.10754		-10.75402	35.80515-	98.00378	
	MONTH	J	F	М	Α	М	J	J
Avg monthly	Q	22	22	28	58	266	468	243
	Hardness	255	241	226	170	86	60	76
Chronic Star	Al, ch	87	87	87	87	87	87	87
	Cd,ch	2.4	2.3	2.1	1.7	1.0	0.8	0.9
	Cu ch	26	25	23	18	10	7	9

Mn	2430	2359	2275	1951	1351	1105	1257
Zn ch	234	224	211	166	94	68	84

A68 Anima	as at Silve	erton						
		Pre	diction	equation c	oefficients			
		Hardness Ca	dmium	Copper	Mangane:	Zinc		
E	3	0.011na		na	0.010	0.016		
l	ntercept	37.945	2.395	5.783	258.473	304.617		
E	3Q	165.600			1371.923	644.136		
5	sin		1.712	2.049	611.024	315.451		
(cos		0.140	0.729	81.662	-18.603		
5	sin1		-0.250	-1.520	16.031	-33.783		
(cos1		-1.185	-0.472	-263.628	-140.108		
	May		-1.936	2.261	-258.699			
	consent		-0.714	-1.828	411.428	-67.174		
Animas R	Month	J	F	М	Α	М	J	J
	Q	25	25	31	66	329	585	300
ŀ	Hardness	168	168	161	134	74	60	76
	Cd,tvs	1.7	1.7	1.7	1.4	0.9	0.8	0.9
	Cu tvs	18	18	17	15	9	8	9
	Mn tvs	1935	1938	1895	1713	1240	1110	1264
nic stand	Al	87	87	87	87	87	87	87

ction Equation Coefficients

Α	S	0	Ν	D
268	187	142	92	70
124	158	182	215	248
87	87	87	87	87
1.3	1.6	1.8	2.1	2.3
7	9	10	11	13
1643	1872	2022	2217	2396
127	156	176	203	229

		Acute TVS a2 b			
C4		-3.828	1.128	-3.49	0.7852
Cd					
Cu		-0.7703	0.9422	-1.485	0.8545
Mn		4.4995	0.7893	4.785	0.5434
Zn		0.8904	0.8473	0.7614	0.8473
	Α	S	0	N	D
	103	71	53	33	25
	126	151	192	217	253
	87	87	87	87	87
	1.4	1.6	1.9	2.1	2.3
	14	16	20	22	26

1659	1829	2085	2229	2418
129	150	184	205	232

	C a	hronic TV 2 b			
Cd	<u> </u>	-3.49	0.7852		
Cu		-1.485	0.8545		
Mn		4.785			
Zn		0.7614			
	Α	S	0	N	D
	122	82	60	38	28
	109	125	138	155	165
	1.2	1.4	1.5	1.6	1.7
	12	14	15	17	18
	1528	1650	1741	1854	1916
	87	87	87	87	87